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DESCRIPTORS: *Seismic waves, *Mechanical waves,
*Geophysics, Structural geology, Folds (Geology),
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Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940, v. 13, no. 2, p. 198-209.

DESCRIPTORS: *Hydrogenation, *Hydrocarbons, *Butenes, Ethylenes, Polymerization, Gases.

The structure of hydrocarbons composing technical diisobutene has been established. Within the boiling range of Butlerov's diisobutene (100.1 to 103.4°) the following isomers were found: 2,2-dimethyl-3-ethyl-3-butene, 2-methyl-3-isopropyl-3-butene and 3-methyl-3-ethyl-4-pentene. The contents of these isomers in technical diisobutene are of the order of magnitude of their contents in the Butlerov diisobutene. Other (Chemistry--Organic, TT, v. 6, no. 9) (over)

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DESCRIPTORS: *Pentanes, *Methyl radicals, Dehy-
drogenation, *Chromium catalysts, Catalysts, Ca-
talysis, *Hydrocarbons.

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xylene over a chromium catalyst supported on alumina
was established and a mechanism of this conversion
suggested, possibly involving isomerization of 2,4,4-
trimethylpentane to 2,5-dimethylhexane at high tem-
perature at a substantial velocity. (Author)
(Chemistry--Organic, TT, v. 6, no. 11)

61-20124

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AmC F-TS-⁶990-RE

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 (Khimiya Sera-Organicheskikh Soedinenii, Soder-
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 199p. 146 refs. PL-480 Int.
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DESCRIPTORS: Fuels, Chemistry, *Petroleum,
 Organic compounds, *Sulfur compounds, *Oils,
 *Kerosene, *Sulfides, *Thiophenes, *Thiols, Rea-
 gents, *Sodium compounds, *Lubricants, *Corrosive
 liquids, Separation, *Towers (Chemistry), Purifica-
 tion, Hydrogenation, Desulfurization, *Ores, Sta-
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AEC Tr 1483

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AMC F-TS-6990-RE

FLT: Prevrasheniya Olefinovikh Uglevodorodov v Prisut-
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Order from ATS \$5.35

ATS-90M43R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960,
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1. Chemical reactions--
Analysis
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reactions
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- II. Mashkina, A. V.
- III. ATS-90M43R
- IV. Associated Technical
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RESEARCH ON ISOMERIZATION OF LIQUID
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Trans. of Zhurnal Obshchei Khimii (USSR) 1946, v. 16,
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DESCRIPTORS: Liquids, *Hydrocarbons, *Hexanes,
*Heptanes, *Octanes, Isomeric transitions, Aluminum
compounds, Chlorides, Catalysts, Catalysis.

Experiments of isomerization of normal hexane,
normal heptane and normal octane in the presence of
fused mixtures of aluminum chloride with other salts
gave high yields of branched-chain isomers of these
normal hydrocarbons. An investigation of the compo-
sition of the products established that hydrocarbons
(Chemistry--Organic. ITT, v. 6, no. 12) (over)

61-20164

I. Obolentsev, R. D.

Office of Technical Services

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